

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number
WO 03/081826 A2(51) International Patent Classification⁷:

H04L

(21) International Application Number: PCT/EP03/02704

(22) International Filing Date: 14 March 2003 (14.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02007008.2 27 March 2002 (27.03.2002) EP

(71) Applicant (for all designated States except US): LIGHT-MAZE AG [DE/DE]; Erbachshof 8, 97249 Eisingen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JAHN, Elke [DE/DE]; Albrecht-Dürer-Strasse 198, 97204 Höchberg (DE). AGRAWAL, Niraj [IN/DE]; Albrecht-Dürer-Strasse 198, 97204 Höchberg (DE).

(74) Agent: DR. WEITZEL & PARTNER; Friedenstrasse 10, 89522 Heidenheim (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

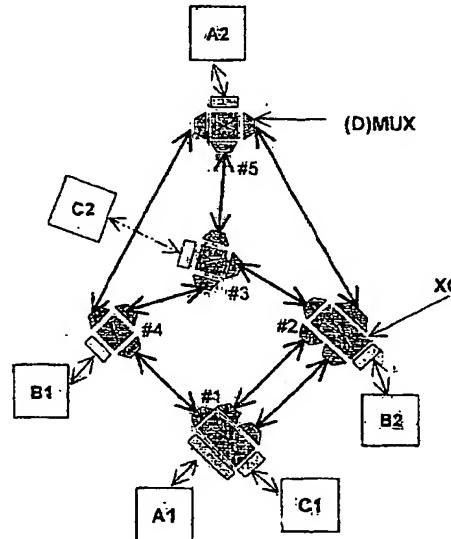
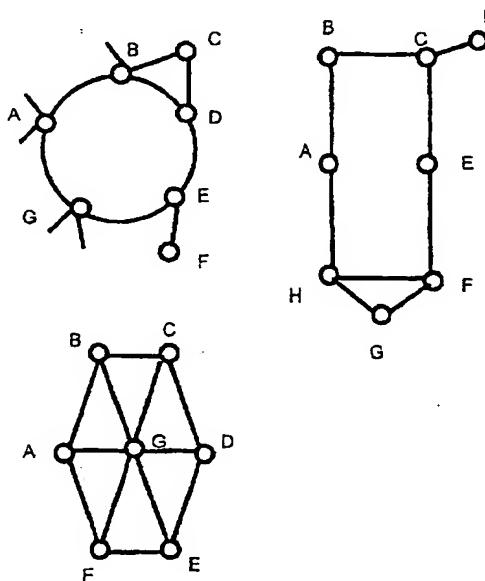
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ; MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SUPERVISORY CHANNEL IN AN OPTICAL NETWORK SYSTEM



WO 03/081826 A2

(57) **Abstract:** The present invention relates to an optical network element for use in a node of an optical network including a plurality of nodes which are interconnected so as to be capable of carrying traffic between selected nodes, comprising a local network management system including means for building up a supervisory connection between the network element and at least a network element of a further node of the optical network. The invention is characterized in that the local network management system is installed to support an arbitrary network topology and to build up a survivable supervisory connection to at least one predetermined other node of the network so as the network element could be integrated in an optical network with arbitrary topology.